Urban Creek Restoration and Trail system

Waller Creek Project

Watershed Protection Department, City of Austin



AGENDA:

- About Waller
- History
- Designs and Planning
- Issues and challenges
- Lessons learned
- Questions







ABOUT

More development- more people- more more more

HISTORY



PICA 21043 Austin History Center, Austin Public Library

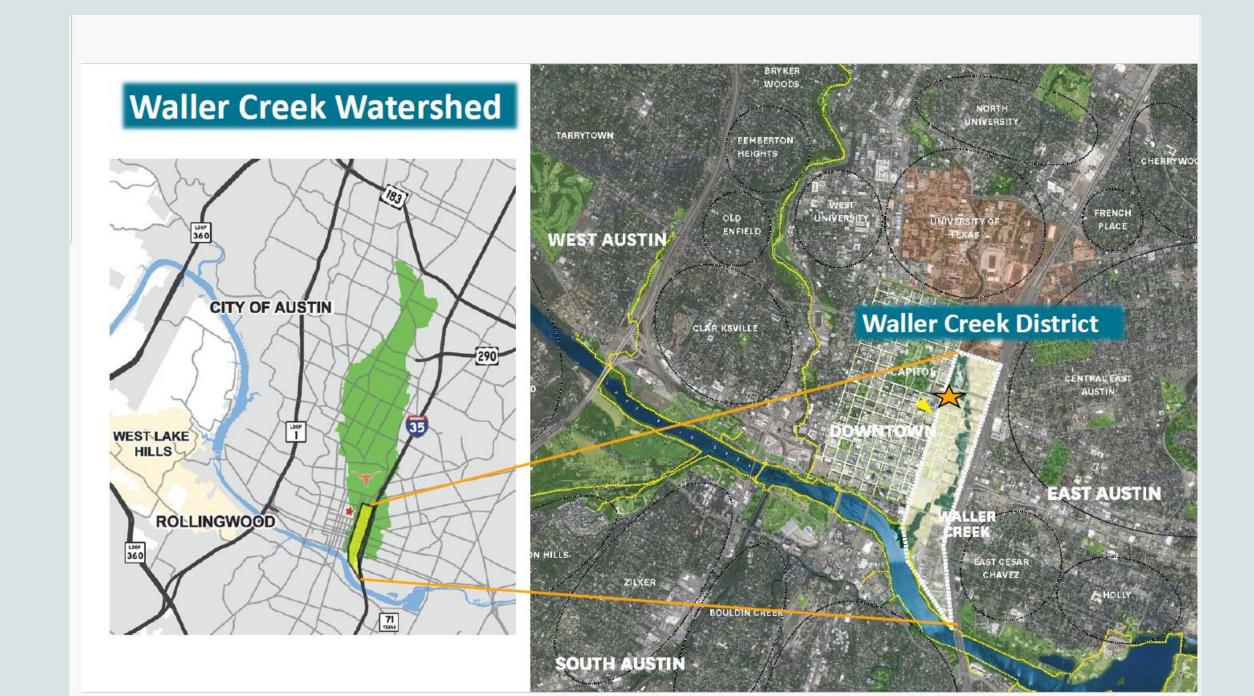
19uu Airplane view of vicinity of Waller Creek & East 1st Street



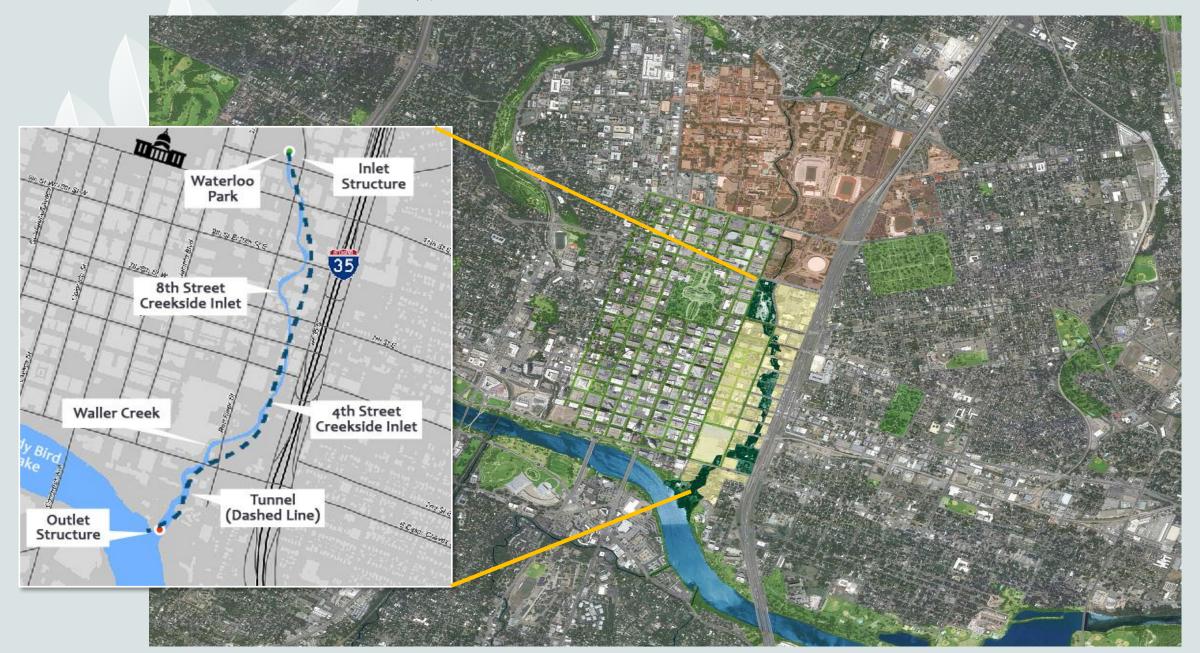
C03659, Austin History Center, Austin Public Library

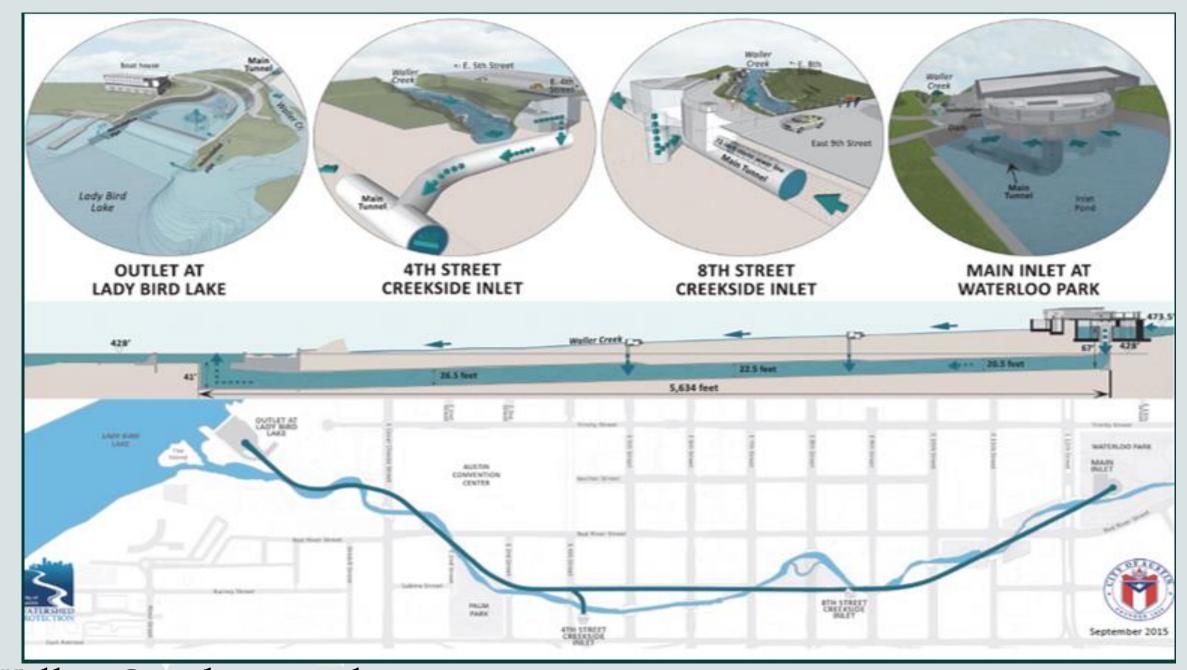
1920 Waller Creek at 6th Street





Waller Creek Tunnel





Waller Creek tunnel

Capturing the Opportunity of the Waller Creek Tunnel

LIMESTONE BEDROCK

5600 FEET IN LENGTH, 0.5% SLOPE

SLEV 428 FT



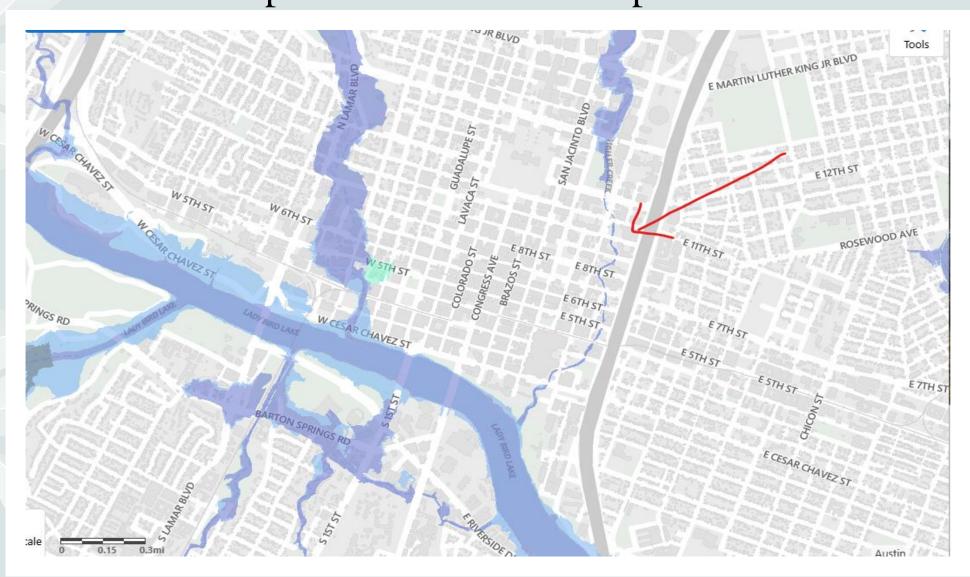
SECONDARY

RECIRCULATION_ PUMPS TO

CREEK

TUNNEL OUTLET

What Waller is now-how the tunnel incorporated new development



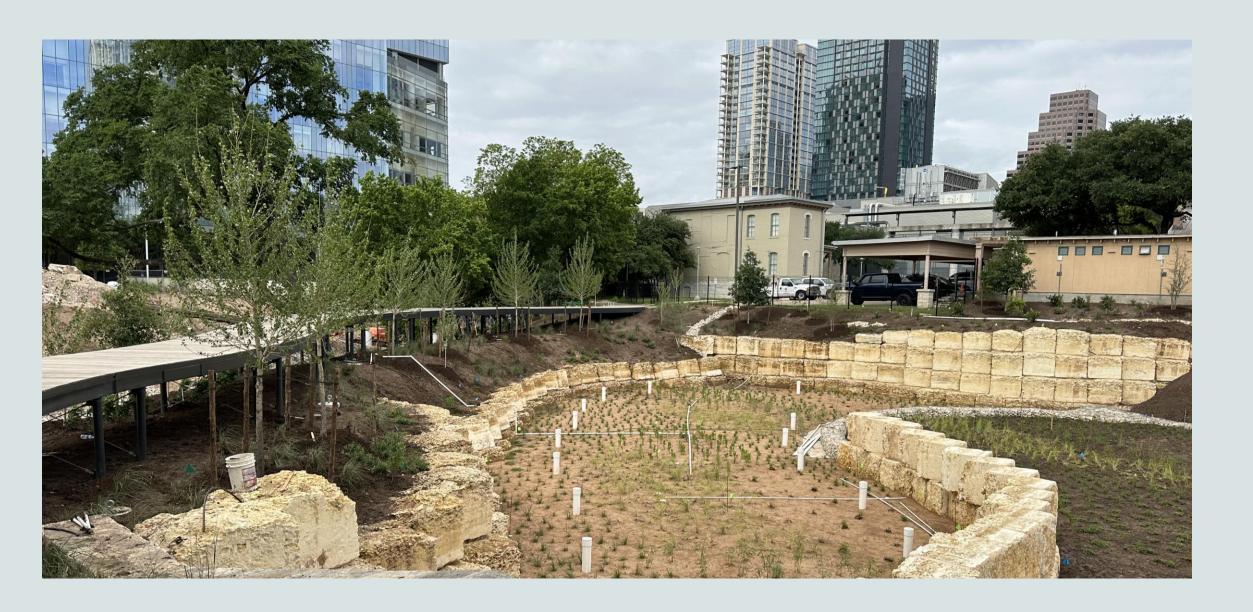
Design and Plans

for a revitalized urban creek and park system

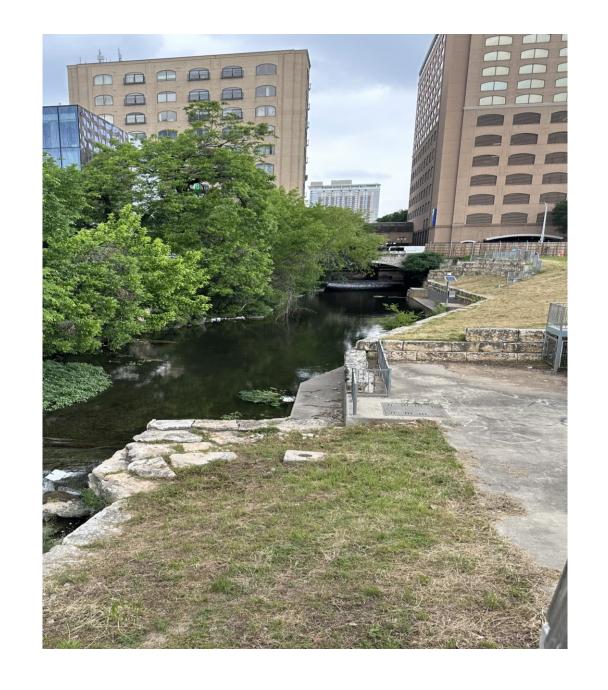


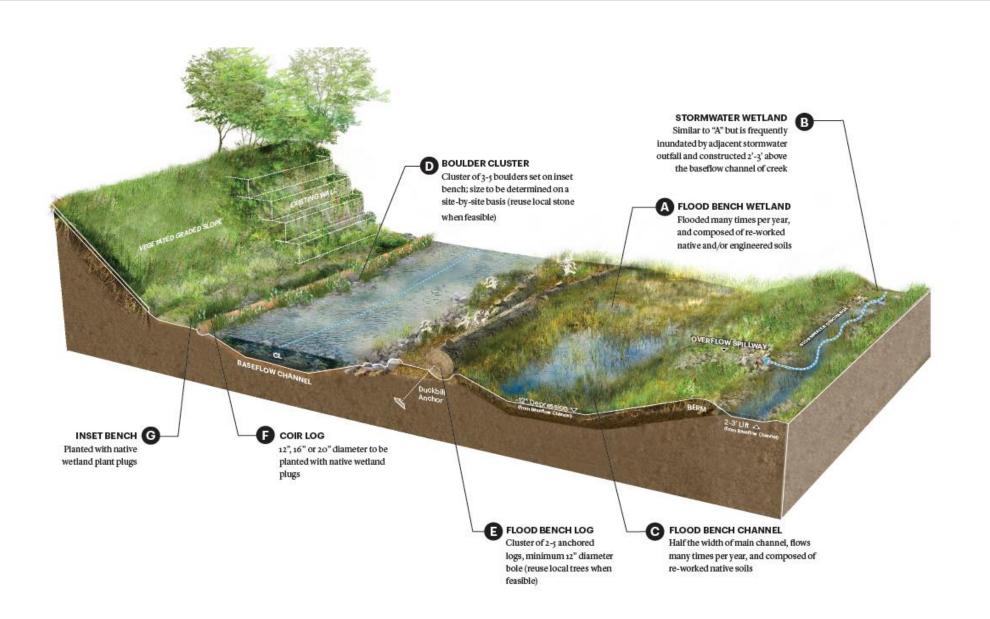




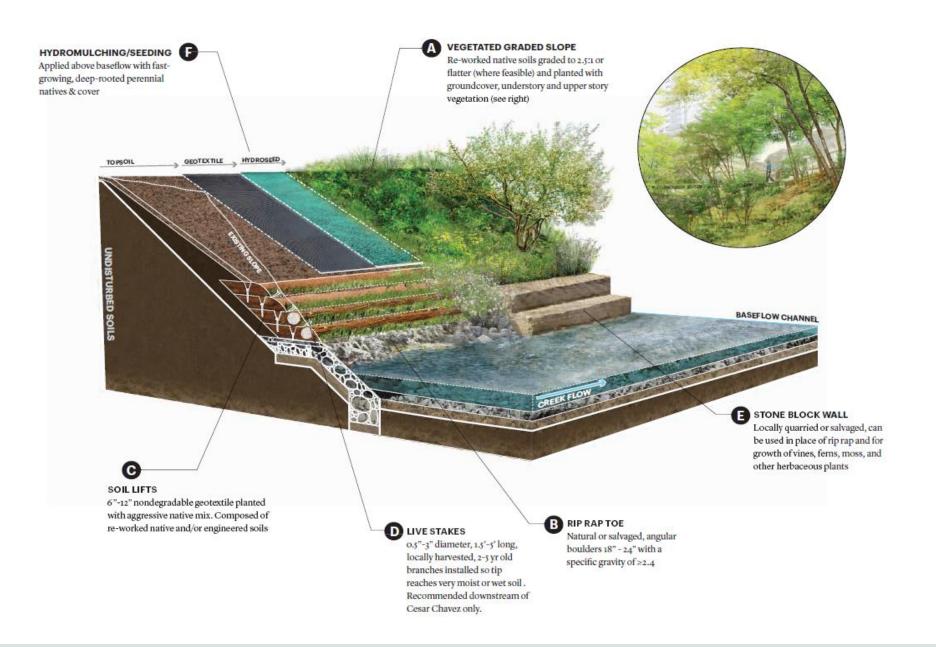


How to make a creek work naturally in an urban setting

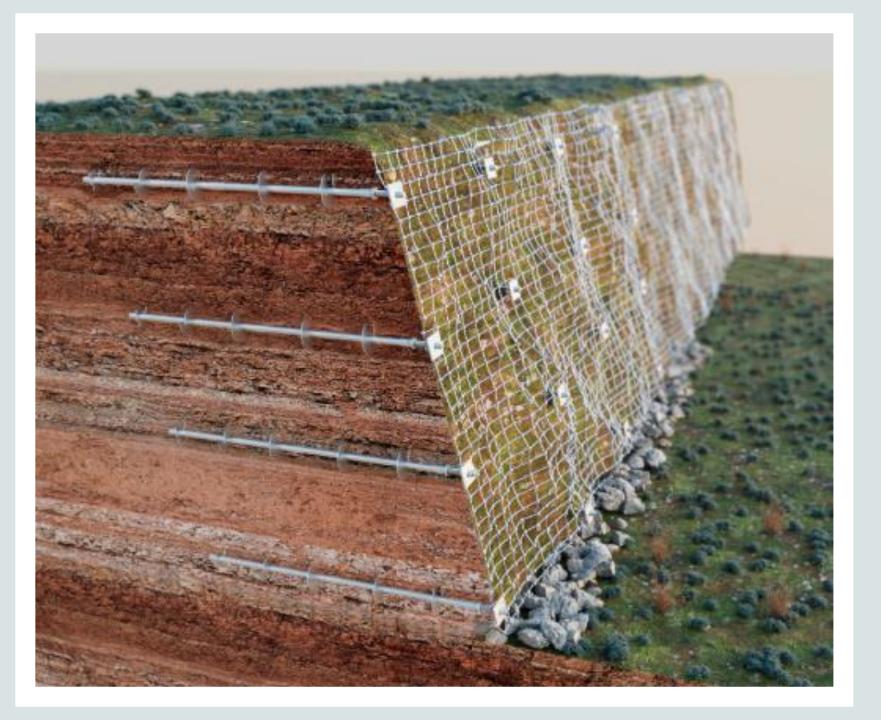




RIPARIAN AREA, FLOOD BENCHES & AQUATIC HABITAT



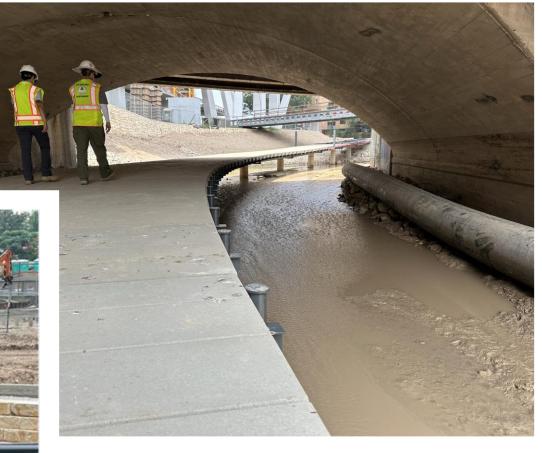
Working with failed slopes



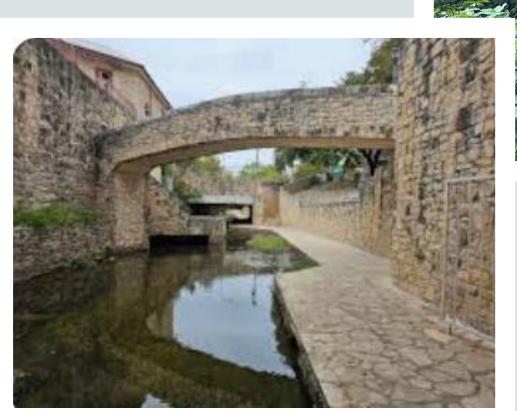
SOIL NAIL WALL

Current construction





ISSUES & CHALLENGES AHEAD





- Slope stabilizationproperty owners and easements
- Creek setbacks

LESSONS LEARNED

Lessons	Recommended Action
Bid item quantity	be sure to triple check bid quantities prior to bid
uncovering issues such as slope stabilization after excavation	be sure site excavation and on site assesments are thorough on slopes
uncovering unknown utilities- site exploration	get a thorough survey with Lidar and communicate with utilities
Designers get water meters set up prior to construction	set up along with permitting phase so there is no mark up from Contractors
Estimates of work from Consultant need approved prior to moving fwd w change orders	We have a LASI, SKL, CO process- need to refer to it for changes
Having a bid build contract process, not design build	keep in mind that the area must be assesed and planned for at the beginning to eliminate scope and cost creep
reduced scope at beginning of bid for desired price- do NOT add back in	if designs are value engineered pout, do not add back in unless more funding has come in
permitting prcocess	make sure ALL permits are attained prior to construction bid
site exploration-proper boring for soil and bed rock depth	proper soil boring
Email or written confirmation	when decision are made or answers to questions have been confirmed get in writing via email to all partys involved to iliminate repeat tasks or confusion





Thank you

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